# Fanxin Long

## List of Publications by Year
## in descending order

Source: https://exaly.com/author-pdf/2291625/publications.pdf

Version: 2024-02-01

96
papers

13,316
citations

29994

54
h-index

39575

94
g-index

102
all docs

102
docs citations

102
times ranked

15311
citing authors

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Assessing Energy Substrate Oxidation &lt;em&gt;In Vitro&lt;/em&gt; with &lt;sup&gt;14&lt;/sup&gt;CO&lt;sub&gt;2&lt;/sub&gt; Trapping. Journal of Visualized Experiments, 2022, , . | 0.2 | 1 |
| 2 | Impaired glucose metabolism underlies articular cartilage degeneration in osteoarthritis. FASEB Journal, 2022, 36, . | 0.2 | 14 |
| 3 | Rational Design of Bisphosphonate Lipid-like Materials for mRNA Delivery to the Bone Microenvironment. Journal of the American Chemical Society, 2022, 144, 9926-9937. | 6.6 | 46 |
| 4 | Biphasic regulation of glutamine consumption by WNT during osteoblast differentiation. Journal of Cell Science, 2021, 134, . | 1.2 | 36 |
| 5 | Functional interaction between Wnt and Bmp signaling in periosteal bone growth. Scientific Reports, 2021, 11, 10782. | 1.6 | 9 |
| 6 | WNT7B overexpression rescues bone loss caused by glucocorticoids in mice. FASEB Journal, 2021, 35, e21683. | 0.2 | 4 |
| 7 | The critical role of Hedgehog-responsive mesenchymal progenitors in meniscus development and injury repair. ELife, 2021, 10, . | 2.8 | 14 |
| 8 | Gli1+ progenitors mediate bone anabolic function of teriparatide via Hh and Igf signaling. Cell Reports, 2021, 36, 109542. | 2.9 | 15 |
| 9 | Malic Enzyme Couples Mitochondria with Aerobic Glycolysis in Osteoblasts. Cell Reports, 2020, 32, 108108. | 2.9 | 79 |
| 10 | The Amino Acid Sensor <scp><i>Eif2ak4</i>/GCN2</scp> Is Required for Proliferation of Osteoblast Progenitors in Mice. Journal of Bone and Mineral Research, 2020, 35, 2004-2014. | 3.1 | 21 |
| 11 | Diet-Induced Metabolic Dysregulation in Female Mice Causes Osteopenia in Adult Offspring. Journal of the Endocrine Society, 2020, 4, bvaa028. | 0.1 | 8 |
| 12 | Both aerobic glycolysis and mitochondrial respiration are required for osteoclast differentiation. FASEB Journal, 2020, 34, 11058-11067. | 0.2 | 55 |
| 13 | Inducible expression of Wnt7b promotes bone formation in aged mice and enhances fracture healing. Bone Research, 2020, 8, 4. | 5.4 | 30 |
| 14 | Single cell transcriptomics identifies a unique adipose lineage cell population that regulates bone marrow environment. ELife, 2020, 9, . | 2.8 | 191 |
| 15 | Osteoblast Differentiation. , 2020, , 409-415. |  | 0 |
| 16 | Less Is More: Ditching Mitochondria Saves Hypoxic Cartilage. Developmental Cell, 2019, 49, 656-658. | 3.1 | 5 |
| 17 | Increased glycolysis mediates Wnt7bâ€induced bone formation. FASEB Journal, 2019, 33, 7810-7821. | 0.2 | 38 |
| 18 | mTOR signaling in skeletal development and disease. Bone Research, 2018, 6, 1. | 5.4 | 202 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Glucose metabolism in bone. Bone, 2018, 115, 2-7. | 1.4 | 104 |
| 20 | Glucose metabolism induced by Bmp signaling is essential for murine skeletal development. Nature Communications, 2018, 9, 4831. | 5.8 | 82 |
| 21 | Energy Metabolism and Bone. Bone, 2018, 115, 1. | 1.4 | 6 |
| 22 | High expression of Sonic hedgehog in allergic airway epithelia contributes to goblet cell metaplasia. Mucosal Immunology, 2018, 11, 1306-1315. | 2.7 | 23 |
| 23 | Notch signaling suppresses glucose metabolism in mesenchymal progenitors to restrict osteoblast differentiation. Journal of Clinical Investigation, 2018, 128, 5573-5586. | 3.9 | 82 |
| 24 | Unintended targeting of Dmp1-Cre reveals a critical role for Bmpr1a signaling in the gastrointestinal mesenchyme of adult mice. Bone Research, 2017, 5, 16049. | 5.4 | 69 |
| 25 | Energy Metabolism of the Osteoblast: Implications for Osteoporosis. Endocrine Reviews, 2017, 38, 255-266. | 8.9 | 272 |
| 26 | Differential involvement of Wnt signaling in Bmp regulation of cancellous versus periosteal bone growth. Bone Research, 2017, 5, 17016. | 5.4 | 20 |
| 27 | Bmp Induces Osteoblast Differentiation through both Smad4 and mTORC1 Signaling. Molecular and Cellular Biology, 2017, 37, . | 1.1 | 80 |
| 28 | Gli1 identifies osteogenic progenitors for bone formation and fracture repair. Nature Communications, 2017, 8, 2043. | 5.8 | 248 |
| 29 | mTORC1 Signaling Promotes Limb Bud Cell Growth and Chondrogenesis. Journal of Cellular Biochemistry, 2017, 118, 748-753. | 1.2 | 20 |
| 30 | Wnt signaling and cellular metabolism in osteoblasts. Cellular and Molecular Life Sciences, 2017, 74, 1649-1657. | 2.4 | 212 |
| 31 | Hedgehog signaling via Gli2 prevents obesity induced by high-fat diet in adult mice. ELife, 2017, 6, . | 2.8 | 47 |
| 32 | Signaling Cascades Governing Cdc42-Mediated Chondrogenic Differentiation and Mensenchymal Condensation. Genetics, 2016, 202, 1055-1069. | 1.2 | 17 |
| 33 | FGF signaling in the osteoprogenitor lineage non-autonomously regulates postnatal chondrocyte proliferation and skeletal growth. Development (Cambridge), 2016, 143, 1811-22. | 1.2 | 56 |
| 34 | Wnt Protein Signaling Reduces Nuclear Acetyl-CoA Levels to Suppress Gene Expression during Osteoblast Differentiation. Journal of Biological Chemistry, 2016, 291, 13028-13039. | 1.6 | 43 |
| 35 | Stromal-Initiated Changes in the Bone Promote Metastatic Niche Development. Cell Reports, 2016, 14, 82-92. | 2.9 | 103 |
| 36 | Rictor is required for optimal bone accrual in response to anti-sclerostin therapy in the mouse. Bone, 2016, 85, 1-8. | 1.4 | 23 |

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|---|---|---|---|
| 37 | PTH Promotes Bone Anabolism by Stimulating Aerobic Glycolysis via IGF Signaling. Journal of Bone and Mineral Research, 2015, 30, 1959-1968. | 3.1 | 109 |
| 38 | Hedgehog signaling activates a positive feedback mechanism involving insulin-like growth factors to induce osteoblast differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4678-4683. | 3.3 | 78 |
| 39 | Dual function of Bmpr1a signaling in restricting preosteoblast proliferation and stimulating osteoblast activity in the mouse. Development (Cambridge), 2015, 143, 339-47. | 1.2 | 52 |
| 40 | Hedgehog signaling stimulates the conversion of cholesterol to steroids. Cellular Signalling, 2015, 27, 487-497. | 1.7 | 29 |
| 41 | BMPâ€"Smad4 signaling is required for precartilaginous mesenchymal condensation independent of Sox9 in the mouse. Developmental Biology, 2015, 400, 132-138. | 0.9 | 64 |
| 42 | mTORC1 Signaling Promotes Osteoblast Differentiation from Preosteoblasts. PLoS ONE, 2015, 10, e0130627. | 1.1 | 66 |
| 43 | <i>Gpr126/Adgrg6</i>deletion in cartilage models idiopathic scoliosis and pectus excavatum in mice. Human Molecular Genetics, 2015, 24, 4365-4373. | 1.4 | 82 |
| 44 | Hedgehog signaling mediates woven bone formation and vascularization during stress fracture healing. Bone, 2015, 81, 524-532. | 1.4 | 36 |
| 45 | mTORC2 Signaling Promotes Skeletal Growth and Bone Formation in Mice. Journal of Bone and Mineral Research, 2015, 30, 369-378. | 3.1 | 82 |
| 46 | Enthesis fibrocartilage cells originate from a population of Hedgehog-responsive cells modulated by the loading environment. Development (Cambridge), 2015, 142, 196-206. | 1.2 | 124 |
| 47 | Increased glutamine catabolism mediates bone anabolism in response to WNT signaling. Journal of Clinical Investigation, 2015, 125, 551-562. | 3.9 | 126 |
| 48 | Osx-Cre Targets Multiple Cell Types besides Osteoblast Lineage in Postnatal Mice. PLoS ONE, 2014, 9, e85161. | 1.1 | 158 |
| 49 | BMPRIA Mediated Signaling Is Essential for Temporomandibular Joint Development in Mice. PLoS ONE, 2014, 9, e101000. | 1.1 | 33 |
| 50 | Wnt7b can replace Ihh to induce hypertrophic cartilage vascularization but not osteoblast differentiation during endochondral bone development. Bone Research, 2014, 2, 14004. | 5.4 | 19 |
| 51 | Aerobic Glycolysis in Osteoblasts. Current Osteoporosis Reports, 2014, 12, 433-438. | 1.5 | 69 |
| 52 | Up-regulation of glycolytic metabolism is required for HIF1Î±-driven bone formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8673-8678. | 3.3 | 126 |
| 53 | WNT7B Promotes Bone Formation in part through mTORC1. PLoS Genetics, 2014, 10, e1004145. | 1.5 | 122 |
| 54 | mTORC1 signaling controls mammalian skeletal growth through stimulation of protein synthesis. Development (Cambridge), 2014, 141, 2848-2854. | 1.2 | 97 |

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|---|---|---|---|
| 55 | Radioactive In Situ Hybridization to Detect Gene Expression in Skeletal Tissue Sections. Methods in Molecular Biology, 2014, 1130, 217-232. | 0.4 | 3 |
| 56 | Constitutive Activation of IKK2/NF-Îº B Impairs Osteogenesis and Skeletal Development. PLoS ONE, 2014, 9, e91421. | 1.1 | 28 |
| 57 | Development of the Endochondral Skeleton. Cold Spring Harbor Perspectives in Biology, 2013, 5, a008334-a008334. | 2.3 | 477 |
| 58 | Inhibition of Ca2+/Calmodulinâ€“Dependent Protein Kinase Kinase 2 Stimulates Osteoblast Formation and Inhibits Osteoclast Differentiation. Journal of Bone and Mineral Research, 2013, 28, 1599-1610. | 3.1 | 52 |
| 59 | WNT-LRP5 Signaling Induces Warburg Effect through mTORC2 Activation during Osteoblast Differentiation. Cell Metabolism, 2013, 17, 745-755. | 7.2 | 294 |
| 60 | Notch Signaling and Bone Remodeling. Current Osteoporosis Reports, 2013, 11, 126-129. | 1.5 | 70 |
| 61 | Role of WNT7B-induced Noncanonical Pathway in Advanced Prostate Cancer. Molecular Cancer Research, 2013, 11, 482-493. | 1.5 | 59 |
| 62 | Î²-catenin promotes bone formation and suppresses bone resorption in postnatal growing mice. Journal of Bone and Mineral Research, 2013, 28, 1160-1169. | 3.1 | 108 |
| 63 | Constitutive Activation of Gli2 Impairs Bone Formation in Postnatal Growing Mice. PLoS ONE, 2013, 8, e55134. | 1.1 | 10 |
| 64 | Physiological Notch Signaling Maintains Bone Homeostasis via RBPjk and Hey Upstream of NFATc1. PLoS Genetics, 2012, 8, e1002577. | 1.5 | 76 |
| 65 | Hedgehog Signaling Inhibition Blocks Growth of Resistant Tumors through Effects on Tumor Microenvironment. Cancer Research, 2012, 72, 897-907. | 0.4 | 72 |
| 66 | Prenatal Bone Development. , 2012, , 39-53. |  | 3 |
| 67 | Building strong bones: molecular regulation of the osteoblast lineage. Nature Reviews Molecular Cell Biology, 2012, 13, 27-38. | 16.1 | 898 |
| 68 | Indian hedgehog requires additional effectors besides Runx2 to induce osteoblast differentiation. Developmental Biology, 2012, 362, 76-82. | 0.9 | 41 |
| 69 | Lrp5 and Lrp6 redundantly control skeletal development in the mouse embryo. Developmental Biology, 2011, 359, 222-229. | 0.9 | 139 |
| 70 | Role of HIFâ€•1Î± in skeletal development. Annals of the New York Academy of Sciences, 2010, 1192, 322-326. | 1.8 | 144 |
| 71 | The Gli2 transcriptional activator is a crucial effector for Ihh signaling in osteoblast development and cartilage vascularization. Development (Cambridge), 2009, 136, 4177-4185. | 1.2 | 87 |
| 72 | Mechanism of shortened bones in mucopolysaccharidosis VII. Molecular Genetics and Metabolism, 2009, 97, 202-211. | 0.5 | 61 |

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|---|---|---|---|
| 73 | Notch signaling maintains bone marrow mesenchymal progenitors by suppressing osteoblast differentiation. Nature Medicine, 2008, 14, 306-314. | 15.2 | 532 |
| 74 | An FGFâ€“WNT gene regulatory network controls lung mesenchyme development. Developmental Biology, 2008, 319, 426-436. | 0.9 | 127 |
| 75 | Rac1 Activation Controls Nuclear Localization of Î²-catenin during Canonical Wnt Signaling. Cell, 2008, 133, 340-353. | 13.5 | 433 |
| 76 | When the Gut Talks to Bone. Cell, 2008, 135, 795-796. | 13.5 | 16 |
| 77 | Targeting intercellular signals for bone regeneration from bone marrow mesenchymal progenitors. Cell Cycle, 2008, 7, 2106-2111. | 1.3 | 9 |
| 78 | NOTCH1 Regulates Osteoclastogenesis Directly in Osteoclast Precursors and Indirectly via Osteoblast Lineage Cells. Journal of Biological Chemistry, 2008, 283, 6509-6518. | 1.6 | 202 |
| 79 | Syk, c-Src, the Î±vÎ²3 integrin, and ITAM immunoreceptors, in concert, regulate osteoclastic bone resorption. Journal of Cell Biology, 2007, 176, 877-888. | 2.3 | 263 |
| 80 | Shox2 is required for chondrocyte proliferation and maturation in proximal limb skeleton. Developmental Biology, 2007, 306, 549-559. | 0.9 | 73 |
| 81 | Tamoxifen-inducible gene deletion reveals a distinct cell type associated with trabecular bone, and direct regulation of PTHrP expression and chondrocyte morphology by Ihh in growth region cartilage. Developmental Biology, 2007, 308, 93-105. | 0.9 | 97 |
| 82 | Noncanonical Wnt Signaling through G Protein-Linked PKCÎ´ Activation Promotes Bone Formation. Developmental Cell, 2007, 12, 113-127. | 3.1 | 286 |
| 83 | Suppression of CXCL12 Production by Bone Marrow Osteoblasts Is a Common and Critical Pathway for Cytokine-Induced Mobilization.. Blood, 2007, 110, 220-220. | 0.6 | 18 |
| 84 | Independent regulation of skeletal growth by Ihh and IGF signaling. Developmental Biology, 2006, 298, 327-333. | 0.9 | 31 |
| 85 | Fibroblast growth factor signals regulate a wave of Hedgehog activation that is essential for coronary vascular development. Genes and Development, 2006, 20, 1651-1666. | 2.7 | 214 |
| 86 | Conditional deletion of Indian hedgehog from collagen type 2Î±1-expressing cells results in abnormal endochondral bone formation. Journal of Pathology, 2005, 207, 453-461. | 2.1 | 111 |
| 87 | Ihh controls cartilage development by antagonizing Gli3, but requires additional effectors to regulate osteoblast and vascular development. Development (Cambridge), 2005, 132, 4339-4351. | 1.2 | 172 |
| 88 | Canonical Wnt Signaling in Differentiated Osteoblasts Controls Osteoclast Differentiation. Developmental Cell, 2005, 8, 751-764. | 3.1 | 1,402 |
| 89 | Sequential roles of Hedgehog and Wnt signaling in osteoblast development. Development (Cambridge), 2005, 132, 49-60. | 1.2 | 593 |
| 90 | Ihh signaling is directly required for the osteoblast lineage in the endochondral skeleton. Development (Cambridge), 2004, 131, 1309-1318. | 1.2 | 372 |

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|---|---|---|---|
| 91 | Regulation of Endochondral Cartilage Growth in the Developing Avian Limb: Cooperative Involvement of Perichondrium and Periosteum. Developmental Biology, 2001, 240, 433-442. | 0.9 | 47 |
| 92 | CREB regulates hepatic gluconeogenesis through the coactivator PGC-1. Nature, 2001, 413, 179-183. | 13.7 | 1,238 |
| 93 | Genetic manipulation of hedgehog signaling in the endochondral skeleton reveals a direct role in the regulation of chondrocyte proliferation. Development (Cambridge), 2001, 128, 5099-5108. | 1.2 | 565 |
| 94 | Type X Collagen and Other Up-Regulated Components of the Avian Hypertrophic Cartilage Program. Progress in Molecular Biology and Translational Science, 1998, 60, 79-109. | 1.9 | 18 |
| 95 | Multiple Transcriptional Elements in the Avian Type X Collagen Gene. Journal of Biological Chemistry, 1998, 273, 6542-6549. | 1.6 | 22 |
| 96 | Tissue-specific Regulation of the Type X Collagen Gene:. Journal of Biological Chemistry, 1995, 270, 31310-31314. | 1.6 | 29 |